

ISS On-Orbit Status Report

Month: March 2017

ISS Daily Summary Report – 3/30/2017

U.S. Extravehicular Activity (EVA) #41: EV1 Kimbrough and EV2 Whitson completed the following tasks during today's 7 hour 3 minute External (EXT) Enhanced Processor and Integrated Communications (EPIC) Multiplexer/Demultiplexer (MDM) / Shields Installation EVA. During the final translation back to the airlock, Whitson's Helmet Light Assembly came loose from her helmet. Kimbrough was able to tether to a bracket on the assembly, disconnect the electrical connections, and fully remove the Helmet Light Assembly to assist in ingress.

Planned Tasks

- Zenith EXT EPIC MDM R&R
- PMA3 Connect

- PMA3 Cover Removal
- Node 3 Axial Shields Install
 - Forward Zenith, Forward Nadir, Forward Aft were completed.
 - During preparation for install, one of four of the axial shields was lost. The Aft Zenith location was shielded with the PMA3 cover. The lost shield is forward of ISS with a retrograde component and there is good confidence that it will phase out of the ISS plane.
- PMA 3 Cummerbunds Install

Get-ahead Task

- N2 Common Berthing Mechanism (CBM) Inspection and partial cleaning
 - Took photos of contamination sites #4 and #38
 - Cleaned contamination at site #4 and took post cleaning photos

Mobile Servicing System: The Robotics Ground Controllers powered up the MSS and used the Space Station Remote Manipulator System (SSRMS) for video support of the EVA #41. The Ground Controllers then maneuvered the SSRMS to a stow configuration which also provided additional views for the Node 2 Nadir Common Berth Mechanism (CBM) cleaning activity. MSS performance was nominal.

Sally Ride Earth Knowledge Acquired by Middle Schools (EarthKAM): This morning the crew successfully installed and activated the EarthKAM payload in the Node 2 nadir hatch window. Science operations using the EarthKAM setup will begin next week, marking the beginning of the 57th EarthKAM mission. This session includes over 200 schools in more than 50 countries around the world and is scheduled to last through April 9. This is a NASA education program that enables thousands of students to photograph and examine Earth from a space crew's perspective. Using the Internet, the students control a special digital

camera mounted on-board the ISS. This enables them to photograph the Earth's coastlines, mountain ranges and other geographic items of interest from the unique vantage point of space. The team at Sally Ride EarthKAM then posts these photographs on the Internet for the public and participating classrooms around the world to view.

Today's Planned Activities

All activities were completed unless otherwise noted.

- LAB BelAir Wireless Access Points (WAPs) Powerdown and Disconnect
- ISS HAM Radio and Video Power Down
- EVA COTS UHF Communication Unit (CUCU) Verify off
- USOS Window Shutter Close
- Extravehicular Activity (EVA) In-Suit Light Exercise (ISLE) Preparation
- Internal Audio Subsystem (IAS) Extravehicular Activity (EVA) Communication Configuration
- EarthKAM Node 2 Setup and Activation–Russian
- ISS Crew departure preparation
- PROBIOVIT Experiment Ops
- Filling Water Container No.3
- Extravehicular Mobility Unit (EMU) Purge
- Hardware prepack for return and disposal on Soyuz 732
- Extravehicular Mobility Unit (EMU) In-Suit Light Exercise (ISLE) Prebreathe
- Crewlock Depress
- Crewlock Egress
- EPIC MDM Remove and Replace
- PMA3 Connections
- PMA3 Cover Removal
- Node 3 Axial Shields Install
- Video Recording of Greetings

- Download of BRI log from RSS1
- PILOT-T. Preparation for the experiment
- Hardware prepack for return and disposal on Soyuz 732
- PILOT-T. Experiment Ops
- PMA3 Cummerbunds Install
- Extravehicular Activity (EVA) Get Ahead Tasks
- CONTENT. Experiment Ops
- Crewlock Ingress
- EVA Glove Photo Setup
- Crewlock Repress
- Extra Vehicular Activity (EVA) Post-EVA Activities
- Internal Audio Subsystem (IAS) EVA Communication Deconfiguration
- EVA Glove Photo Downlink
- Photo/TV EVA Camera Disassembly
- Crew Discretionary Event
- Metal Oxide (METOX) Regeneration Initiation
- Photo/TV Extravehicular Activity (EVA) GoPro Downlink
- LAB BelAir Wireless Access Point (WAP) Connect Power Cable and Power ON

Completed Task List Items

- None

Ground Activities

All activities were completed unless otherwise noted.

- EVA #41 support
- EXT MDM Checkout

Three-Day Look Ahead:

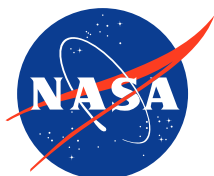
- **Friday, 03/31:** Crew departure prep, EVA debrief/cleanup
- **Saturday, 04/01:** Crew off duty, housekeeping
- **Sunday, 04/02:** Crew off duty

QUICK ISS Status – Environmental Control Group:

Component	Status
Elektron	On
Vozdukh	Manual
[CKB] 1 – SM Air Conditioner System (“SKV1”)	Off
[CKB] 2 – SM Air Conditioner System (“SKV2”)	On
Carbon Dioxide Removal Assembly (CDRA) Lab	Standby
Carbon Dioxide Removal Assembly (CDRA) Node 3	Operate
Major Constituent Analyzer (MCA) Lab	Operate

Major Constituent Analyzer (MCA) Node 3	Standby
Oxygen Generation Assembly (OGA)	Process
Urine Processing Assembly (UPA)	Reprocess
Trace Contaminant Control System (TCCS) Lab	Off
Trace Contaminant Control System (TCCS) Node 3	Full Up

Bill Keeter / March 30, 2017 / 2017, March



ISS On-Orbit Status Report

National Aeronautics and Space Administration

NASA Official: Brian Dunbar

No Fear Act

FOIA

Privacy

Office of Inspector General

Agency Financial Reports

Contact NASA